

MCB 2010L MICROBIOLOGY LABORATORY SCHEDULE Summer 2019 Term 3 Session 2
TEXT: MICROBIOLOGY LABORATORY MANUAL 3rd Edition; Obenauf & Finazzo

DATE	Lab Period	LABORATORY PROCEDURES (exercises)
5/13 M	1	Lab Overview & Lab Safety Rules 1* Basic Techniques Use of the Microscope 5 Microorganisms: Protozoans
5/14 T	2	4 Microorganisms: Microbial Phototrophs 6 Microorganisms: Fungi
5/15 W	3	2 Basic Techniques: Aseptic Techniques 7 Microorganisms: Motility: Hanging Drop
5/16 R	4	☞ Get Slide Boxes (one per team of 2 – keep in drawer) 8 Staining: Simple Staining & Smear Preparation 9 Staining: Negative Stain 10 Staining: Capsule Stain
5/20 M	5	11 Staining: Gram Stain 12 Staining: Acid Fast Stain 13 Staining: Endospore Stain
5/21 T	6	*WRITTEN EXAM 1* <i>(on lab periods 1-5)</i> 14 Media & Diagnosis: Blood Agar
5/22 W	7	15 Media & Diagnosis: Mannitol Salt Agar (MSA) 16 Media & Diagnosis: Eosin Methylene Blue (EMB) 17 Media & Diagnosis: MacConkey Agar 34 Diagnosing Infections: Rapid Immunoassay (Rapid Strep Test)
5/23 R	8	27 Analysis of DNA: Electrophoresis 28 Bacterial Transformation
5/27 M		Memorial Day Holiday College Closed
5/28 T	9	18 Growth: Chemical Content of Media 19 Growth: Osmotic Pressure & Growth 24 Treatment & Control: UV Light
5/29 W	10	20 Growth Oxygen and Growth (Aerotolerance) 23 Growth: Plate Count 25 Treatment & Control: Antimicrobial Susceptibility
5/30 R	11	Review for Midterm Practical Exam <i>Students may attend review sessions in other lab times as guests.</i>
6/3 M	12	⇒ MIDTERM PRACTICAL EXAM <i>(on lab periods 1 – 10)</i> ⇒ MIDTERM WRITTEN EXAM <i>(on lab periods 6 – 10)</i>

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6/4 T	13	29 Infectious Diseases: Parasitic Protozoans 31 Infectious Diseases: Vectors 30 Infectious Diseases: Parasitic Worms 3 Basic Techniques: Isolation Streak Plate
6/5 W	14	32 Diagnosing Infections: Immunoprecipitation 33 Diagnosing Infections: Passive Agglutination 49 Bacterial Unknowns
6/6 R	15	36 Diagnosing Infections: Enteropluri Test 37 Environmental Microbiology: Soil Microbiology 48 " Known " bacteria for Biochemical testing
6/10 M	16	42 Biochemical Testing: Phenol Red (Sugar) Broth 43 Biochemical Testing: Triple Sugar Iron Agar (TSI)
6/11 T	17	Written Exam 3 <i>(on lab periods 13-16)</i> 21 Oxygen and Growth: Catalase Test 22 Oxidase Test 44 Biochemical Testing: Litmus Milk
6/12 W	18	IMViC Testing 45 Biochemical Testing: SIM Medium 45 Biochemical Testing: MR and VP tests 45 Biochemical Testing: Simmon's Citrate Agar
6/13 R	19	39 Hydrolytic Enzymes: Gelatin Hydrolysis 46 Biochemical Testing: Urease Test 47 Biochemical Testing: Nitrate Reduction
6/17 M	20	38 Hydrolytic Enzymes: DNase Test 40 Hydrolytic Enzymes: Starch Hydrolysis 41 Hydrolytic Enzymes: Casein Hydrolysis
6/18 T	21	Review for Final Practical Exam <i>Students may attend review sessions in other lab times as guests</i>
6/19 W		LAB CLOSED FOR EXAM SETUP
6/20 R	22	⇒ FINAL PRACTICAL EXAM <i>(on lab periods 13 – 20)</i> ⇒ FINAL WRITTEN EXAM <i>(on lab periods 17 – 20)</i>

*if you are using the 2nd edition of the lab manual, the exercise numbers will be different – use the exercise titles